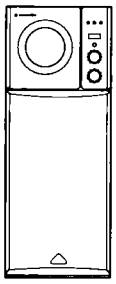
PIONEER
The Art of Entertainment

Service Manual



ORDER NO.
RRV1613

POWERD SUBWOOFER
S-W200

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	The voltage can be converted by the following method.
	S-W200		
KUC	O	AC120V	———
SD	O	AC110 – 115V/120 – 127V/220 – 230V/240V	With the voltage selector
SL	O	AC110 – 115V/120 – 127V/220 – 230V/240V	With the voltage selector

CONTENTS

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MOD+LE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les piÂces de remplacement doivent avoir la mÉme dÃsignation.

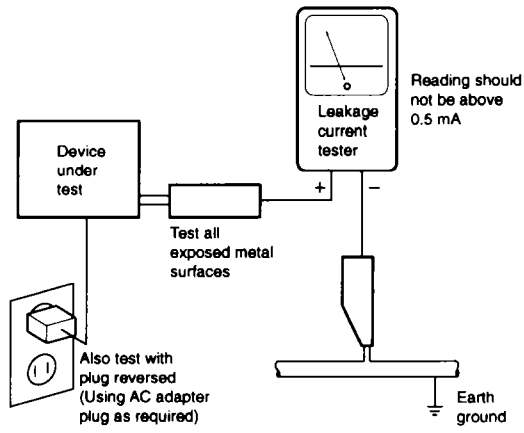
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. DISASSEMBLY

1. POWER AMP SECTION AND TERMINAL SECTION

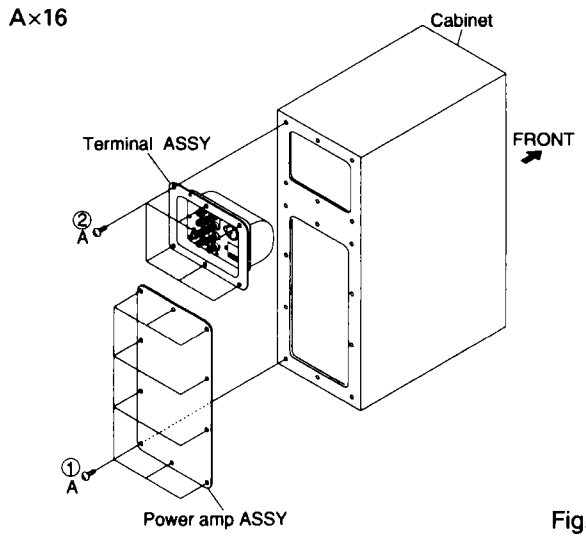


Fig.1

• POWER AMP SECTION

- Remove 10 screws (①) from the power amplifier.
- Remove 4(KUC type) /5(SD and SL types) connectors and the speaker connection cords.

• TERMINAL SECTION

- Remove 6 screws (②) from the terminal assy.
- Remove 2(KUC type) /3(SD and SL types) connectors from the power amplifier.

2. FRONT CONTROL SECTION

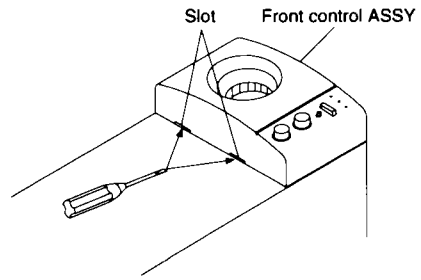


Fig.2

• FRONT CONTROL SECTION

- Remove the grill.
- Insert a screwdriver into the slit under the Front Control Assy to pry open the front panel gradually and uniformly.
- Remove 2 connectors from the power amplifier.

3. SPEAKER

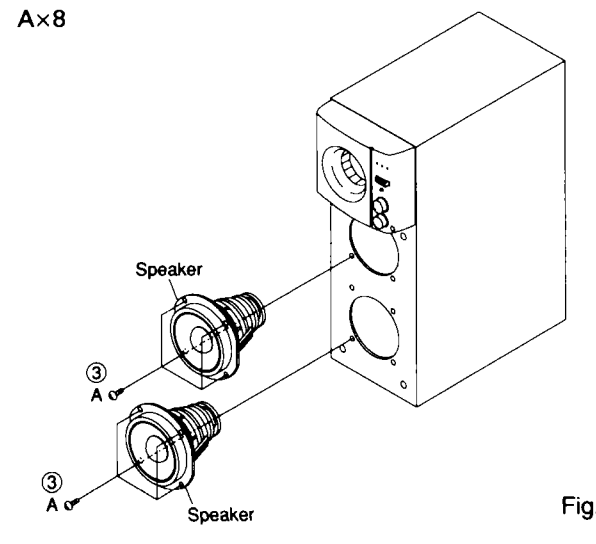


Fig.3

• SPEAKER

- Remove the grill.
- Each speaker is attached to the baffle by 4 external screws. To detach it,unfasten those screws.
- When attaching it face its terminal downward.

3. PACKING, EXPLODED VIEWS AND PARTS LIST

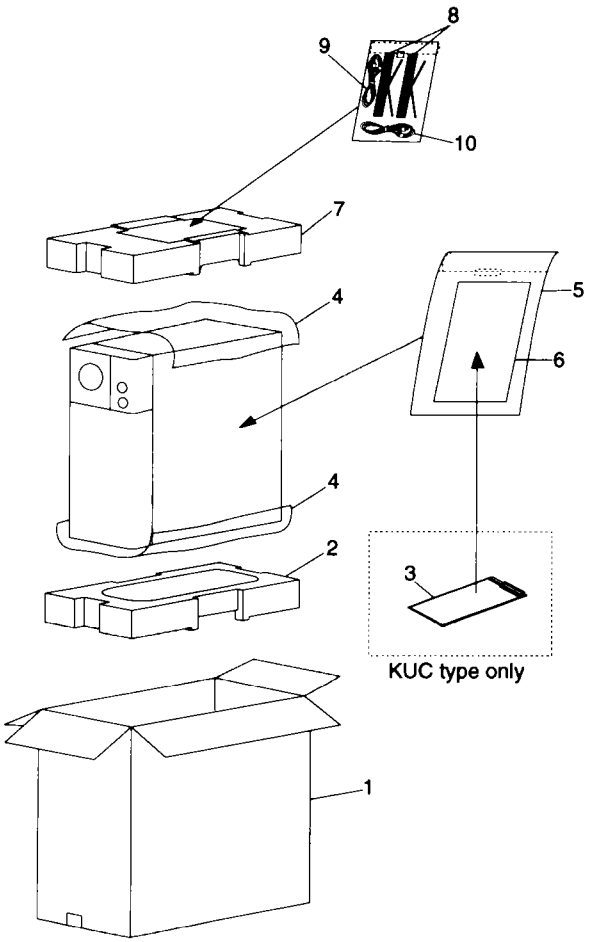
NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

3.1 PACKING

Parts List

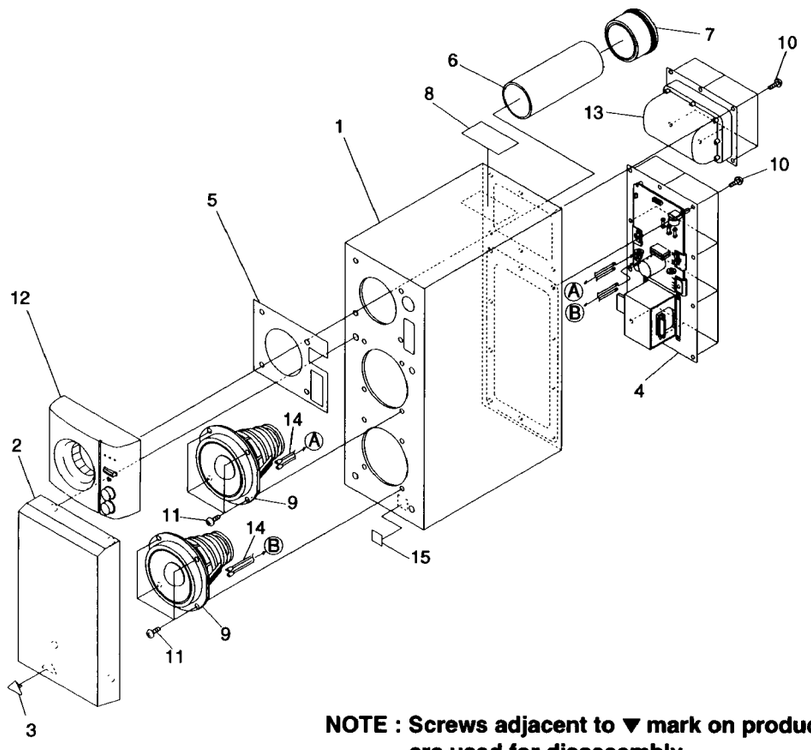
Mark	No.	Description	Parts No.
	1	Packing case (KUC type)	SHG1891
	1	Packing case (SD type)	SHG1888
	1	Packing case (SL type)	SHG1890
	2	Bottom protector	SHA1963
NSP	3	Warranty card (KUC type only)	ARY1044
	4	Protection mat S5	SHC1623
NSP	5	Dependence set (KUC type)	SME2529
NSP	5	Dependence set (SD and SL types)	SME2528
	6	Operating instructions (English/French) (KUC type)	SRD1154
	6	Operating instructions (English/Spanish/Chinese) (SD and SL types)	SRD1153
	7	Top protector	SHA1962
	8	Service cord	SDS1012
	9	Connection cord	SDE1019
⚠	10	AC power cord (KUC type)	ADG1126
⚠	10	AC power cord (SD type)	ADG1158
⚠	10	AC power cord (SL type)	ADG1154



3.2 EXTERIOR

Parts List

Mark	No.	Description	Parts No.
NSP	1	Cabinet	SMM1703
	2	Grill	SMG1487
	3	Logo	SAM1396
NSP	4	Power amp ASSY (KUC type)	AXX7033
NSP	4	Power amp ASSY (SD type)	AXX7035
NSP	4	Power amp ASSY (SL type)	AXX7036
	5	Gascket	SEC1297
NSP	6	Port – tube ASSY	SMR1250
NSP	7	Port ling	SNK1906
NSP	8	65 label (KUC type only)	SRW1013
	9	Speaker	SWM1034
	10	Screw	SBA – 153
	11	Screw	SBA – 122
NSP	12	Front control ASSY	AXX7031
NSP	13	Terminal ASSY (KUC type)	AXX7026
NSP	13	Terminal ASSY (SD type)	AXX7028
NSP	13	Terminal ASSY (SL type)	AXX7029
	14	SP cord ASSY	ADX7133
NSP	15	UL Caution Card	AAX – 313

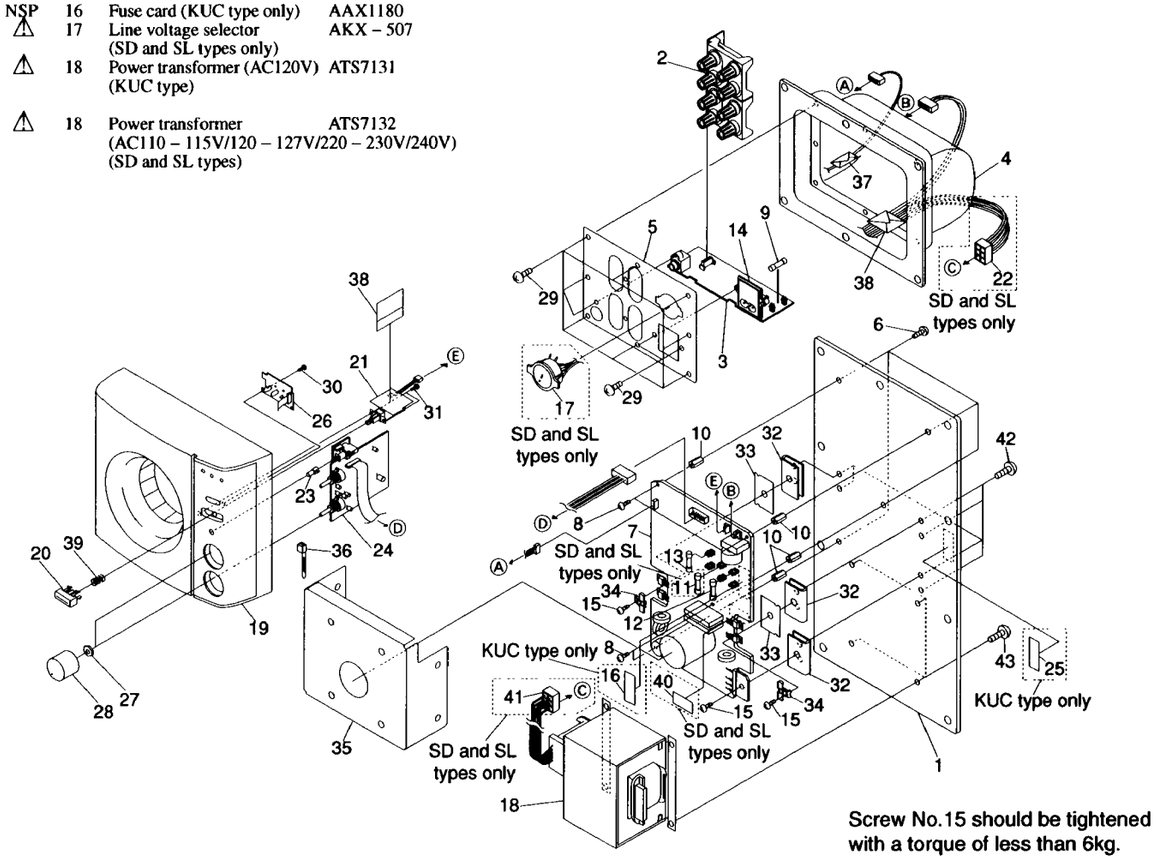


NOTE : Screws adjacent to ▼ mark on product are used for disassembly.

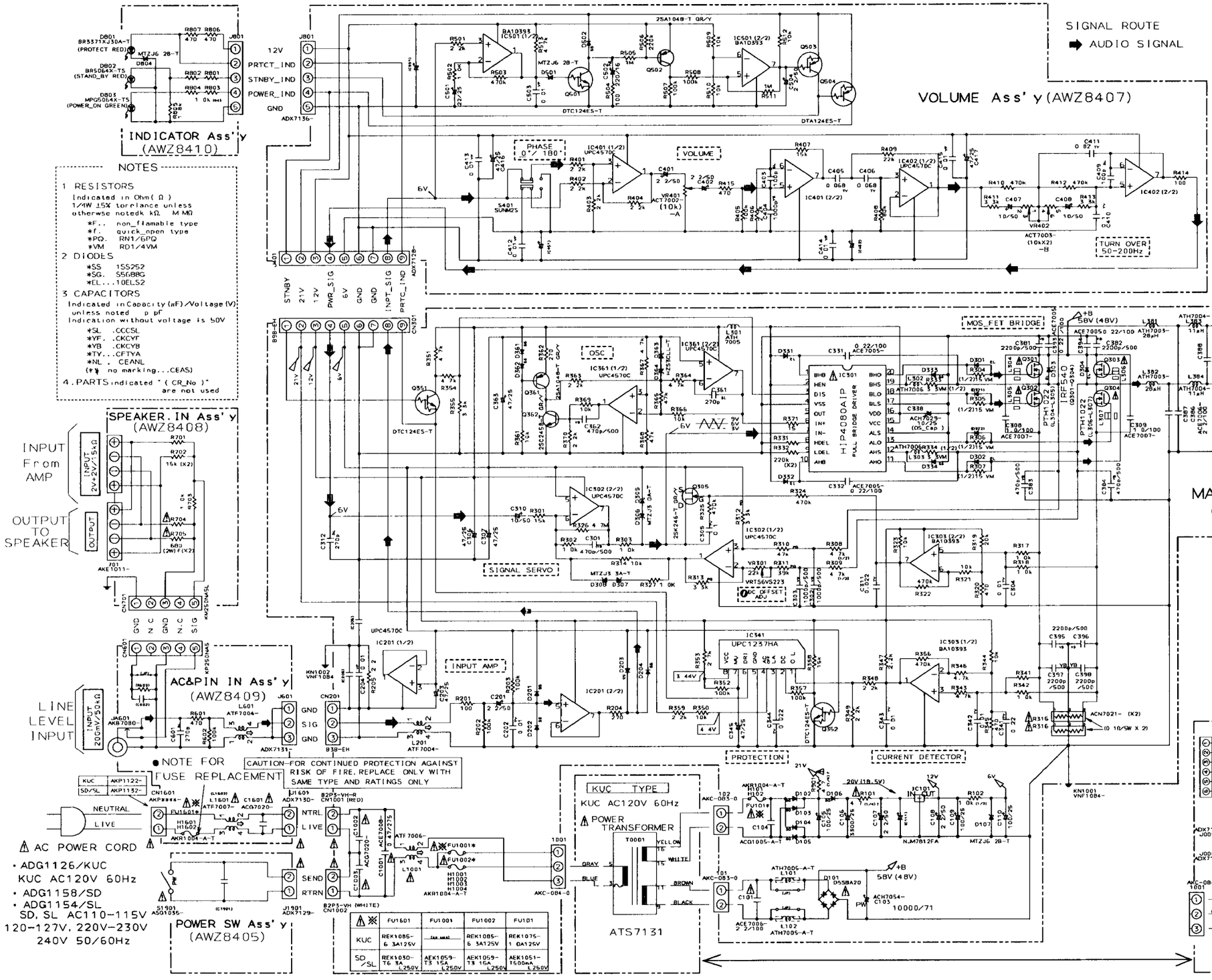
3.3 POWER AMP SECTION

Parts List

Mark	No.	Description	Parts No.
	1	Main rear panel	ANC7441
NSP	2	SPEAKER IN ASSY	AWZ8408
	3	AC & PIN IN ASSY	AWZ8409
	4	Terminal box	AEC7067
	5	Terminal plate (KUC type)	ANC7440
	5	Terminal plate (SD and SL types)	ANC7442
	6	Screw	BMT30P080FZK
	7	MAIN ASSY	AWZ8406
	8	Screw	BMZ30P060FCU
⚠	9	Fuse (6.3A/125V) FU1601 (KUC type)	REK1085
⚠	9	Fuse (6.3A/250V) FU1601 (SD and SL types)	REK1030
	10	PCB holder	ANL7005
⚠	11	Fuse (T3.15AL/250V) FU1001 (SD and SL types only)	AEK1059
⚠	12	Fuse (6.3A/125V) FU1002 (KUC type)	REK1085
⚠	12	Fuse (T3.15AL/250V) FU1002 (SD and SL types)	AEK1059
⚠	13	Fuse (1.0A/125V) FU101 (KUC type)	REK1075
⚠	13	Fuse (T500mA/250V) FU101 (SD and SL types)	AEK1051
⚠	14	AC inlet (KUC type)	AKP1122
⚠	14	AC inlet (SD and SL types)	AKP1132
	15	Screw	ABA1052
NSP	16	Fuse card (KUC type only)	AAX1180
⚠	17	Line voltage selector (SD and SL types only)	AKX – 507
⚠	18	Power transformer (AC120V) (KUC type)	ATS7131
⚠	18	Power transformer (AC110 – 115V/120 – 127V/220 – 230V/240V) (SD and SL types)	ATS7132
	19	Front panel ASSY	ANB7061
	20	Power button	AAD2539
⚠	21	POWER SW ASSY	AWZ8405
⚠	22	6P Lead with housing (SD and SL types only) (Pin)	ADX7134
	23	Push button (0°/180°)	AAD2423
	24	VOLUME ASSY	AWZ8407
NSP	25	Fuse card (KUC type only)	AAX – 111
NSP	26	INDICATOR ASSY	AWZ8410
	27	Nut	NK90FZB
	28	VR Knob	AAB7098
	29	Screw	BPZ30P080FZK
	30	Screw	VPZ26P060FMC
	31	Screw	VPZ30P080FMC
	32	Heatsink	ANH7045
⚠	33	Sheet	AEB1256
	34	Holder	AEC7059
	35	Shield case	ANK7025
NSP	36	Binder	ZCA – BK1
	37	Packing	AED7010
	38	Packing	AED7011
	39	Lock lever spring	ABH7004
	40	Sheet A (SD and SL types only)	AEC7062
⚠	41	6P Lead with housing (SD and SL types only) (Socket)	ADX7135
	42	Screw	BBT30P080FZK
	43	Screw	ABA7028



4. SCHEMATIC AND PCB CONNECTION DIAGRAMS



NOTE FOR SCHEMATIC DIAGRAMS (Type 1A)

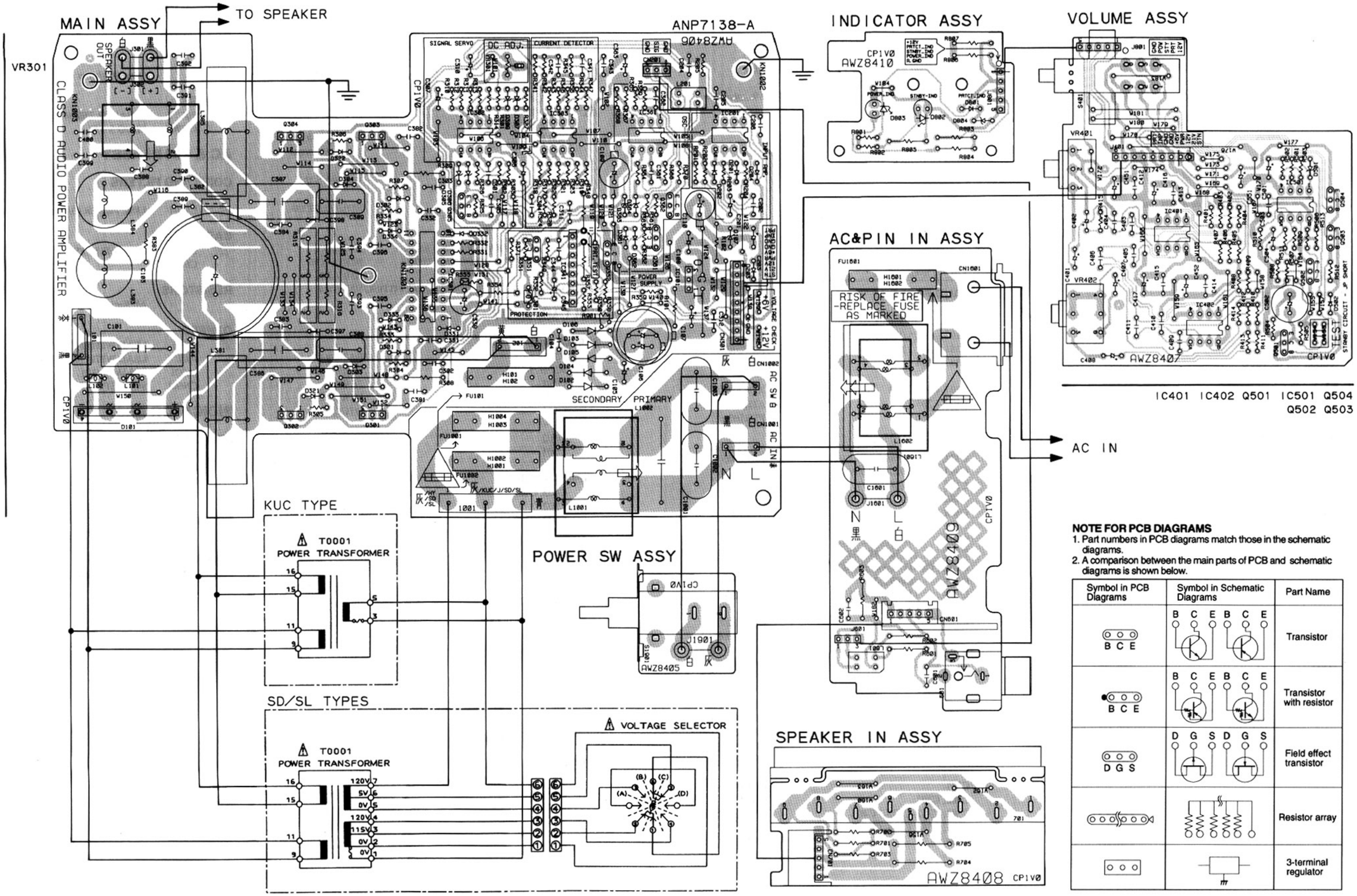
1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M.MΩ, or Ω unless otherwise noted
   Rated power 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance (F): ±1%, (G): ±2%, (K): ±10%, (M). ±20% or ±5% unless otherwise noted
4. **CAPACITORS:**
   Unit: p:pF or μF unless otherwise noted.
   Ratings. capacitor (μF)/voltage(V) unless othrewise noted
   Rated voltage: 50V except for electrolytic capacitors
5. **COILS:**
   Unit: m:mH or μH unless otherwise noted
6. **VOLTAGE AND CURRENT:**
   V Signal voltage at rated output
   or ← V
   DC voltage (V) at no input signal unless otherwise noted
   Value in ( ) is DC voltage at rated power
   ⇦ mA or ← mA
   DC current at no input signal unless otherwise noted
7. **OTHERS:**
   • ⊘ or ⊘ . Adjusting point.
   • ⊣ : Measurement point.
   • The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SCH-□ ON THE SCHEMATIC DIAGRAM:**
   • SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram)
9. **SWITCHES** (Underline indicates switch position)

POWER SW ASSY
S1901 POWER ON/OFF

FRONT ASSY
S401 · 0°/180°

	FU1601	FU1003	FU1002	FU1101
KUC	REK1086-6 3A125V	(not used)	REK1086-6 3A125V	REK1075-1 0A125V
SD/SL	REK1030-T6 3A L250V	AEK1059-T3 15A L250V	AEK1059-T3 15A L250V	AEK1051-1500mA L250V

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.



NOTE FOR PCB DIAGRAMS

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

5. PCB PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	→	*56 × 10¹* →	*561*	*RD1/4PU561J*
47kΩ	→	*47 × 10³* →	*473*	*RD1/4PU473J*
0.5Ω	→	*0R5*		*RN2H0R5K*
1Ω	→	*1R0*		*RS1P1R0K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	→	*562 × 10¹* →	*5621*	*RN1/4PC5621F*

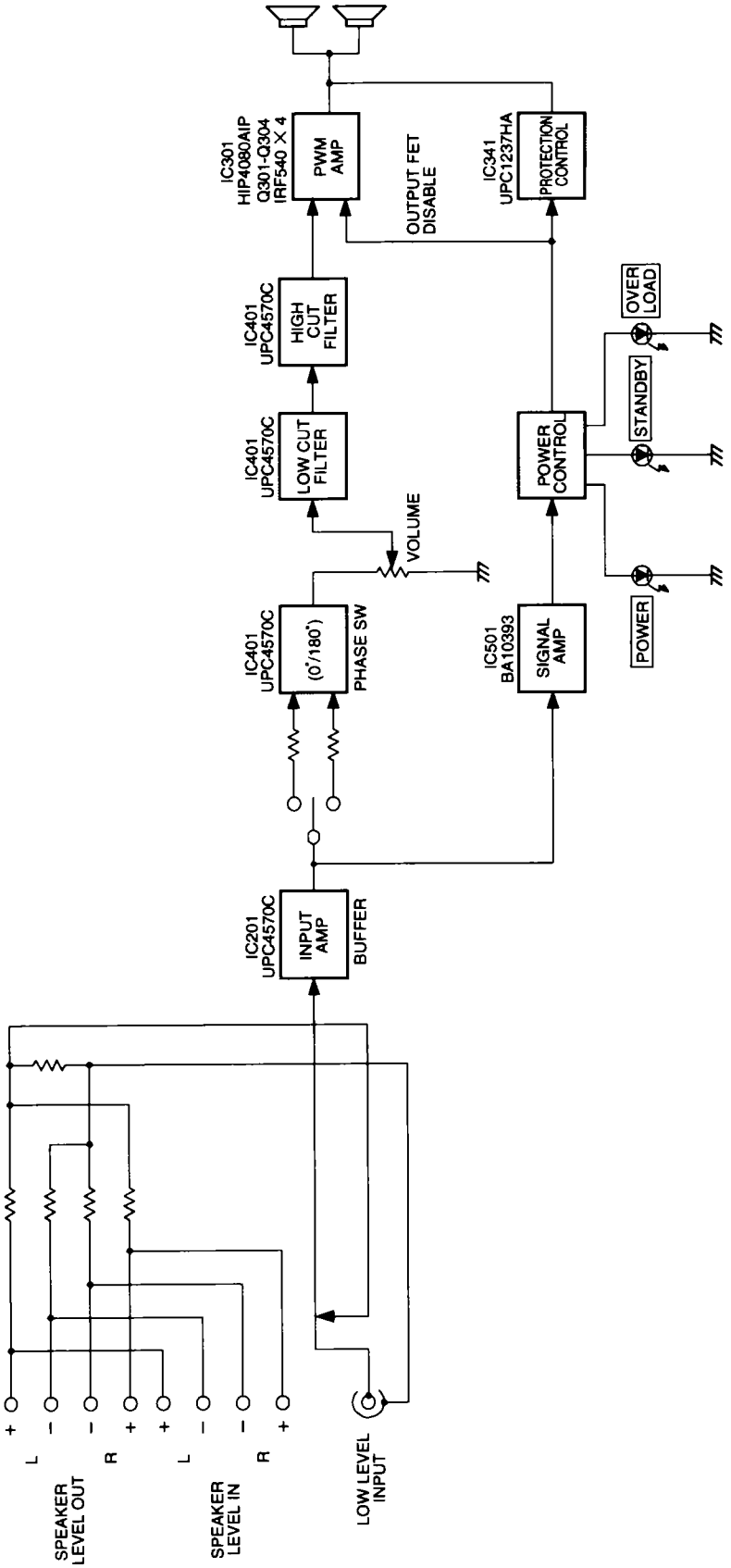
Mark	No.	Description	Parts No.
LIST OF ASSEMBLIES			
⚠		POWER SW ASSY	AWZ8405
		MAIN ASSY	AWZ8406
		VOLUME ASSY	AWZ8407
NSP		SPEAKER IN ASSY	AWZ8408
		AC & PIN IN ASSY	AWZ8409
NSP		INDICATOR ASSY	AWZ8410
POWER SW ASSY			
OTHERS			
	J1901	LEAD WITH HOUSING	ADX7129
⚠	S1901	PUSH SWITCH	ASG1035
MAIN ASSY			
SEMICONDUCTORS			
	IC303		BA10393
⚠	IC301		HIP4080AIP
	IC101		NJM7812FA
	IC341		UPC1237HA
	IC201, IC302, IC361		UPC4570C
	Q361		2SA1048
	Q362		2SC2458
	Q305		2SK246
	Q351, Q352		DTC124ES
⚠	Q301 – Q304		IRF540
	D301 – D304, D331, D332		10ELS2
	D201 – D204, D333, D334		1SS252
	D361, D362		1SS252
⚠	D101		D5SBA20
	D363, D364		HZS3CLL
	D305, D306		MTZJ3.0A
	D307, D308		MTZ3.3A
	D107		MTZJ6.2B
	D102 – D106		S5688G

Mark	No.	Description	Parts No.
COILS AND FILTERS			
	L201		ATF7004
	L385	(0.3mmH, AC250V)	ATF7005
	L1001	(5.0mmH, AC250V)	ATF7006
	L381, L382	(28μH)	ATH7003
	L383, L384	(11μH)	ATH7004
	L101, L102, L301		ATH7005
	L302, L303		ATH7006
	L304 – L307		PTH1022
CAPACITORS			
	C331, C332, C388 – C390	(0.22μF/100V)	ACE7005
	C393, C394	(0.22μF/100V)	ACE7005
⚠	C101	(2.2μF/100V)	ACE7006
	C386, C387	(2.2μF/100V)	ACE7006
	C308, C309	(1.0μF/100V)	ACE7007
⚠	C1001	(0.47μF/AC275V)	ACE7008
	C104	(0.01μF/AC150V)	ACG1005
⚠	C1002, C1003	(10000pF/AC250V)	ACG7020
	C338	(10μF/25V)	ACH7029
	C103	(10000μF/71V)	ACH7054
	C312, C361		CCCSL271J50
	C310		CEAS100M50
	C105, C109, C110		CEAS101M25
	C107, C108, C201		CEAS2R2M50
	C106		CEAS332M25
	C203, C306, C307, C345, C363		CEAS470M25
	C202, C304, C342, C343		CFTYA103J50
	C305		CFTYA104J50
	C391, C392		CFTYA105J50
	C311, C344		CFTYA223J50
	C341		CFTYA224J50
	C302, C303		CKCYB102K500
	C381, C382, C395 – C400		CKCYB222K500
	C301, C362, C383, C384		CKCYB471K500
	C204		CKCYF103Z50

Mark	No.	Description	Parts No.
RESISTORS			
⚠	R315, R316	(0.1Ω, 5W)	ACN7021
	R102		RD1/2PM102J
	R308, R309		RD1/2PM472J
	R383		RD1/2LMF330J
	R304 – R307		RD1/2VM150J
	R333, R334		RD1/2VM3R3J
⚠	R101, R901		RFA1/4PS4R7J
	R312, R313		RN1/6PQ3301F
	R311		RN1/6PQ3902F
	R310		RN1/6PQ4702F
	VR301	(22kΩ)	VRTS6VS223
		Other Resistors	RD1/4PU□□□J
OTHERS			
	J301	SPEAKER CORD ASSY	ADX7133
⚠	CN1002	2P – VH CONNECTOR	B2P3 – VH
	CN201	3P TOP POST	B3B – EH
	KN1001 – KN1003	EARTH METAL FITTING	VNF1084
VOLUME ASSY			
SEMICONDUCTORS			
	IC501		BA10393
	IC401, IC402		UPC4570C
	Q502		2SA1048
	Q503, Q504		DTA124ES
	Q501		DTC124ES
	D502		1SS252
	D501		MTZJ6.2B
CAPACITORS			
	C403, C409		CCCSL101J50
	C502		CEANL221M16
	C407, C408		CEAS100M50
	C501		CEAS220M25
	C401, C402, C504		CEAS2R2M50
	C416, C417		CEAS470M25
	C410		CFTYA104J50
	C405, C406		CFTYA683J50
	C411		CFTYA824J50
	C404		CKCYB102K50
	C412 – C415, C503		CKCYF103Z50
RESISTORS			
	VR401	(10kΩ • A)	ACT7002
	VR402	(10kΩ • B×2)	ACT7003
		Other Resistors	RD1/4PU□□□J
OTHERS			
	J401	9P LEAD WITH HOUSING	ADX7128
	S401	PUSH SWITCH	SUNM2S

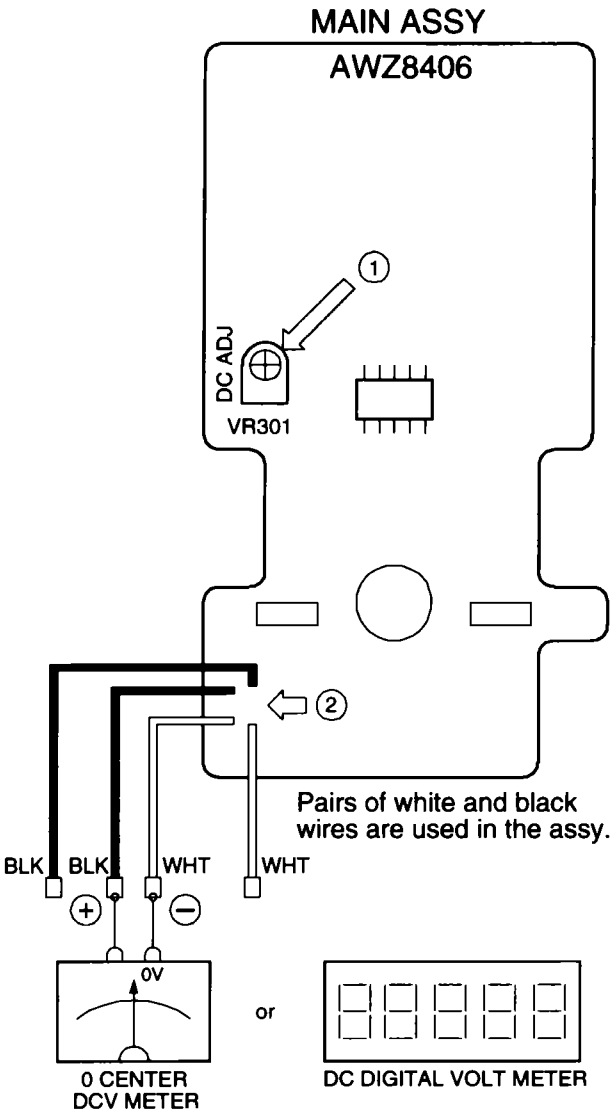
Mark	No.	Description	Parts No.
SPEAKER IN ASSY			
RESISTORS			
	R704, R705		RS2LMF681J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	701	SPEAKER TERMINAL 8 – P	AKE1011
	CN701	PLUG 5 – P	KM250NA5L
AC & PIN IN ASSY			
COILS AND FILTERS			
	L601		ATF7004
⚠	L1601	LINE FILTER (0.05mH/AC250V)	ATF7007
CAPACITORS			
⚠	C1601	(10000pF/AC250V)	ACG7020
	C601		CCCSL271J50
RESISTORS			
		All Resistors	RD1/4PU□□□J
OTHERS			
⚠	J1601	LEAD WITH HOUSING	ADX7130
	J601	LEAD WITH HOUSING	ADX7131
	JA601	PIN JACK(1P)	AKB7080
	CN601	SOCKET 5 – P	KP250NA5
INDICATOR ASSY			
SEMICONDUCTORS			
	D801	LED (RED)	BR3371XJ30A
	D802	LED (RED)	BR5064X
	D803	LED (GREEN)	MPG5064X
	D804		MTZJ6.2B
RESISTORS			
		All Resistors	RD1/4PU□□□J
OTHERS			
	J801	5P LEAD WITH HOUSING	ADX7136

6. BLOCK DIAGRAM



7. ADJUSTMENTS

DC OFFSET ADJUSTMENT OF OUTPUT TERMINAL



1. Connect the DC voltmeter to either one of the two white or black wires (two white wires and two black wires) from SPEAKER OUT ②.

2. Adjust the VR301 ① so that the DC voltage of SPEAKER OUT ② is set to 0±5mV.

Note: Perform the above adjustment more than one minute after turning the power ON.

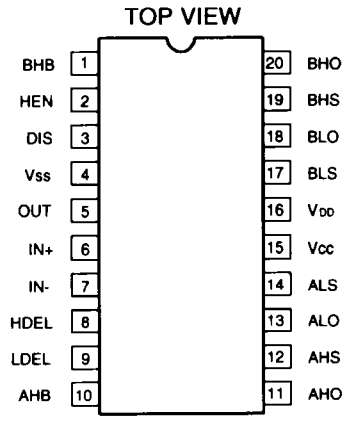
8. IC INFORMATION

■ HIP4080AIP (IC301:MAIN ASSY)

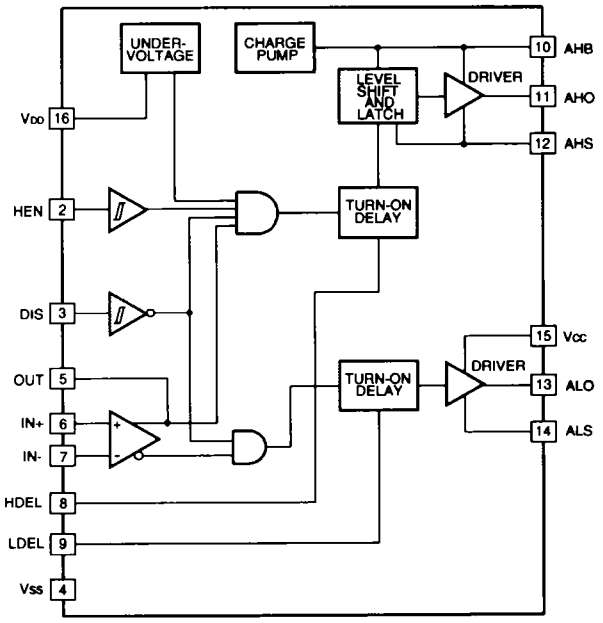
● FULL BRIDGE MOS F.E.T. DRIVER

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

● Pin Assignment



● Block Diagram

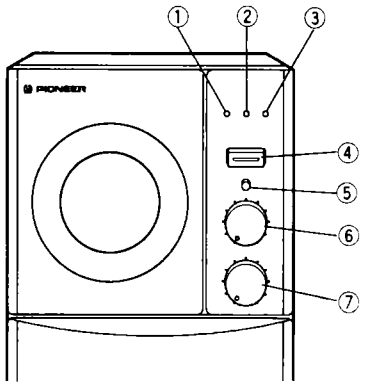


● Pin Function

No	Pin Name	Description
1	BHB	Power source of the upper bootstrap on the B side of full bridge.
2	HEN	Upper enable input
3	DIS	Disable input
4	Vss	To the power terminal GND on the negative side.
5	OUT	Input control comparator output terminal
6	IN+	Non-reverse input of control comparator
7	IN-	Reversed input of control comparator
8	HDEL	Upper turn-on delay
9	LDEL	Lower turn-on delay
10	AHB	Power source of the upper bootstrap on the A side of full bridge.
11	AHO	Output of the upper bootstrap on the A side of full bridge.
12	AHS	Upper leased connection on the A side of full bridge.
13	ALO	Lower output on the A side of full bridge.
14	ALS	Lower leased connection on the A side of full bridge.
15	Vcc	Positive power source of gate driver.
16	VDD	Positive power source of lower gate driver.
17	BLS	Lower leased connection on the B side of full bridge.
18	BLO	Lower output on the B side of full bridge.
19	BHS	Upper leased connection on the B side of full bridge.
20	BHO	Upper output on the B side of full bridge

9. PANEL FACILITIES

Ⓐ FRONT PANEL



① Power Indicator
Illuminates when the power is on.

② STANDBY Indicator (STANDBY)
Illuminates during AUTO POWER OFF (STANDBY status).
- AUTO POWER OFF Function.
  When there is no input signal for 6 – 8 minutes, the power automatically switches off to conserve energy. As soon as a signal is received again, the power switches ON.

③ OVERLOAD indicator (OVERLOAD)
Lights when the input signal is excessively large or when the amplifier is not operating correctly.
- When the OVERLOAD indicator is lit, turn the POWER switch OFF and then ON again. If the indicator still remains lit, please contact a PIONEER-authorized service center.

④ Power switch (POWER)
When pressed, power is turned ON; when pressed again, power is turned OFF.

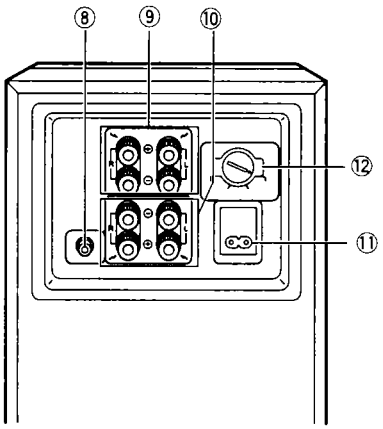
⑤ Phase switch (PHASE ▮ 0° / ▂ 180°)
When depressed (▂ 180°), the output phase becomes the reverse of the input signal, and when raised (▮ 0°), it is in the same phase as the input signal.
- Normally, the switch is set to (▮ 0°).
  But when the sound connection between the subwoofer and the left and right speakers sounds unnatural, try switching to 180° and set the switch in the position where the sound is natural.

⑥ Level knob (LEVEL)
Sets the subwoofer volume.
- Turn the knob slowly from the MIN position.
- With this unit, the bass level can be independently set, so do not turn up the bass on the stereo amplifier.

⑦ Turnover knob (TURNOVER)
Sets the high limit of the frequency played back by the subwoofer.
- Setting Criteria

50Hz .... when the diameter of the left/right speakers is 20-cm or more.
100Hz .. when the diameter of the left/right speakers is 10 – 25-cm.
200Hz .. when the diameter of the left/right speakers is 12-cm or less.

Ⓑ REAR PANEL



REAR PANEL (Ⓑ)

⑧ Line Level Input terminal (LINE LEVEL INPUT)
Connects to the stereo amplifier's SUBWOOFER PRE-OUT terminal, with the specially provided RCA plug cord.

⑨ Speaker Level Output terminals (SPEAKER LEVEL OUTPUT)
When the speakers output terminals on the stereo amplifier are connected to this unit's SPEAKER LEVEL INPUT terminals ⑩ and used as the unit's input signal, these terminals are used to connect the left and right speakers via the unit.

⑩ Speaker Level Input terminals (SPEAKER LEVEL INPUT)
Connect to the speakers output terminals on the stereo amplifier, with the specially provided speaker cords.

⑪ AC Inlet (AC INLET)
Connects to the stereo amplifier's or receiver's AC outlet or an AC wall outlet, with the specially provided power cord.

⑫ Voltage Selector (VOLTAGE SELECTOR)
SD, SL only

10. SPECIFICATIONS

Cabinet ..... A floor, bass-reflex type, with a built-in amplifier, having a PVC-sheet (Black) finishing.
Speaker (Magnetically shielded type) ..... 15 cm (5 – 7/8 in.) × 2
Power Amplifier
Continuous Average Power Output is 200 Watts* min, at 4 ohms from 30 Hertz to 200 Heltz with no more than 10% total harmonic distortion.**

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*
** *Measured by Audio Spectrum Analyzer.*

Total Harmonic Distortion 0.3%
(30 – 200Hz, 4Ω, 50W)
Input (sensitivity at 60 Hz/impedance)
SPEAKER LEVEL ..... 3V + 3V/15kΩ
(both channels in-phase)
LINE LEVEL (RCA jack) ..... 300 mV/50 kΩ
Turnover Frequency ..... 50 – 200 Hz (continuously variable)
Outline Dimension ..... 210 (W) × 550 (H) × 428 (D) mm
8 – 5/16 (W) × 21 – 5/8 (H) × 16 – 7/8 (D) in.
Weight (without package) ..... 14.8 kg (32 lb 10 oz)
Power Requirements
KUC type ..... AC 120V, 60Hz
SD and SL types ..... AC 110 – 115/120 – 127/220 – 230/240V, (switchable), 50/60Hz
Power Consumption ..... 60 W
Accessories ..... Speaker cords × 2
RCA plug cord × 1
Operating instructions × 1
Warranty card × 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.